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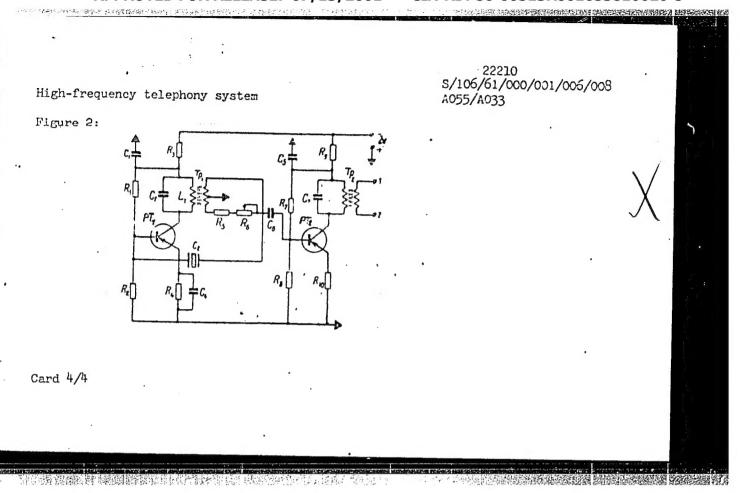
stability coefficient was chosen equal to 2.8. The collector loads are formed by tuned IC-circuits. A crystal resonator is connected in series with the positive feedback circuit. The auxiliary generators differ from the main one inasmuch as they contain no crystal generator in the positive feedback circuit, and the parameters of their IC-circuits are not the same. The generator for channel 1/3 is a 6.4 kc carrier generator. Another particularly important junction point of the system is the group repeater used in unattended stations. The principal features of this transistorized four-stage amplifier (also connected in a common--emitter arrangement) are the linearity of the response and the low level of noises. The thorough design of the whole system made it possible to reduce the noise in the repeaters to a sufficiently low level (not exceeding - 14.5 neper in the band of one channel). The frequency and amplitude characteristics of the repeater are reproduced in the article, as well as its connecting diagram. Thanks to the use of transisfors, the whole set for the three-channel system is highly economical, the total average current drain being only 45 ma in the intermediate. stations, and 120 ma in the terminal ones, which corresponds, at 24 volts, to less than 1 watt per channel. There are 6 figures, 1 table and 2 Soviet-bloc

SUBMITTED: June 22, 1960

Card 3/4

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SUKHODOYEV, I.V., inzh.

New three-channel apparatus of high-frequency district communication systems. Vest. sviazi 21 no.1:8-10 Ja '61. (MIRA 15:5)

(Telephone)

SUKHODOYEV, V.S., assistent

Signaling of the clearance of a switch sector by the tail end of an incoming train. Avtom., telem. i sviaz' 9 no.3:41-42 Mr '65. (MIRA 18:11)

1. Kafedra "Zheleznodorozhnyye stantsii i uzly" Leningradskogo instituta inzhenerov zheleznodorozhnogo transporta.

Study of the natural focus of Q fever in the mountainous region of Trans-Ili Ala-Tau. Zdrav. Kazakh. 21 no.8:54-59 '61. (MIRA 14:9)

1. Iz Instituta krayevoy patologii AN Kazakhskoy SS:. (TRANS-ILI ALA-TAU-Q FEVER)

SUKHODOYEVA, G.S.

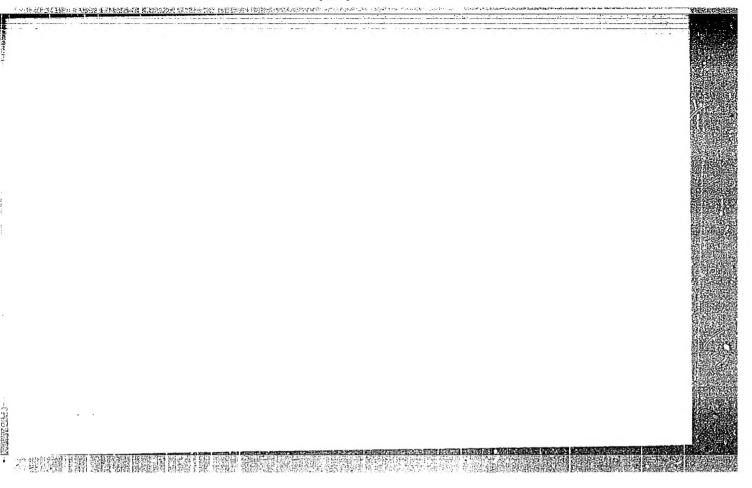
Studies on a natural focus of Q-fever in Trans-Ili Alatau. Zhur. mikrobiol., epid. i immun. 33 no.7:28-32 Jl '62. (MIRA 17:1)

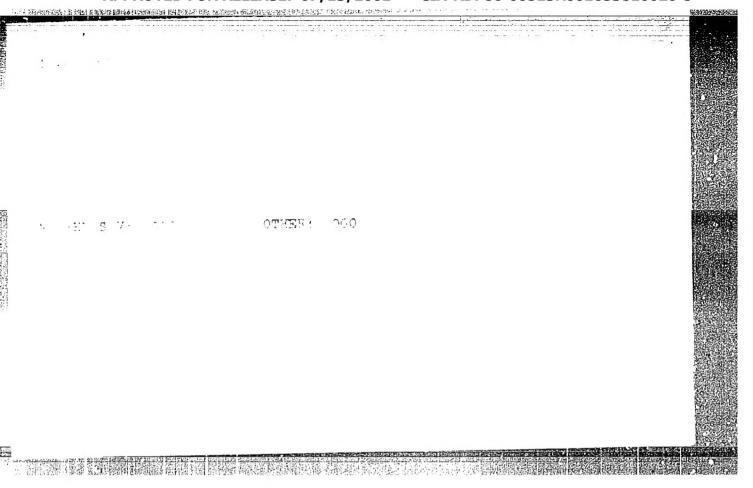
1. Iz Instituta krayevoy patologii AN Kazakhskoy SSR i Instituta epidemiologii i mikrobiologii imeni Gamalei AMN SSSR.

SUKHODOYEVA, G.S.

Characteristics of the properties of Rickettsia burneti from a natural focus in southern Kazakhstan. Zhur. mikrobiol. epid. i immun. 40 no.5:84-89 My '63. (MIRA 17:6)

l. Iz Instituta krayevoy patologii AN Kazakhskoy SSR i Instituta epidemiologii i mikrobiologii imeni Gamalei AMN SSSR.





SOV/70-4-4-14/34

AUTHORS: Ioffe, Yu.K. and Sukhodrev, A.M.

TITLE: A Scintillation Counter for Soft X-rays and Certain Results

of its Application in a Fast-operating Diffractometer

PERIODICAL: Kristallografiya, 1959, Vol 4, Nr 4, pp 554-562 (USSR)

ABSTRACT: A scintillation counter and new electric circuits have been fitted to the URS50I diffractometer increasing its speed by a factor of 8 and its accuracy by a factor of 3. The chief difference is the replacement of the Geiger counter with a dead time of ~1 µs by a NaI(T1)

scintillation counter with a deadtime of 1-10 mms. The maximum count rate of the latter is about 10 /sec and the luminosity of contemporary X-ray tubes is too low to use this speed properly. The advantages of the scintillation counter are: 1) resolving time of ~0.25 ms, permitting a count rate of 50 000/sec; 2) near 100% efficiency as against 45% for CuK_a and a Geiger tube;

3) energy discrimination. A serious difficulty with the scintillation counter is that background pulses from

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SOV/70-4-4-14/54
A Scintillation Counter for Soft X-rays and Certain Results of its
Application in a Fast-operating Diffractometer

thermally-emitted electrons are of the same height as those it is required to count. A diagram of the geometry used with an FEU-29 photomultiplier is shown. crystal is cut into a disc 2 mm thick, operations being performed in a dry atmosphere. A 0.2 mm thick Be window is used with a 1 μ Al foil for reflecting the light. The window diameter is 30 mm. The photomultiplier has a sensitivity of 16 photoelectrons per 100 light quanta, the background pulses are less than 12 mV and the resolution is better than 8.5%. The counters were tested in the diffractometer with Cr, Cu and Mo radiation monochromatised by reflection from a quartz crystal. Two methods were used for separating signal impulses from the background: a) by pulse height on an oscillograph screen and b) by pulse height discriminator circuits with a channel width of 1.5 V. The efficiencies were 75%, 90% and 98% for Cr, Cu and Mo radiations, respectively. The background was about 0.5 counts per sec. For the three wavelengths, the

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A Scintillation Counter for Soft X-rays and Certain Results of its Application in a Fast-operating Diffractometer

efficiencies are 1.2, 2.5 and 10 times better than for an argon-filled Geiger counter. A block diagram of the electrical circuits of the diffractometer is given. An overall increase in speed of eight times in the operation of the diffractometer was achieved together with gains in reliability and stability. The detection of weak lines is three times better. Specimen diffractograms are reproduced showing the improvements. Acknowledgments are made to M.I. Teumin. There are 5 figures and 11 references, of which 7 are Soviet, 1 German and 3 English.

SUBMITTED: November 19, 1958

Card3/3

CASTRODORES DA MONTO PARTA CUERTO ARTA D

L 28861-66 EnP(k)/EWI(m)/T/EWA(d)/EWP(t)/ETI IJP(c) DJ/JD/HN

ACC NR: AP6010497 SOURCE CODE: UR/0201/65/000/003/0093/0095

AUTHOR: Severdenko, V. P.; Muras, V. S.; Sukhodrev, E. Sh.

ORG: none

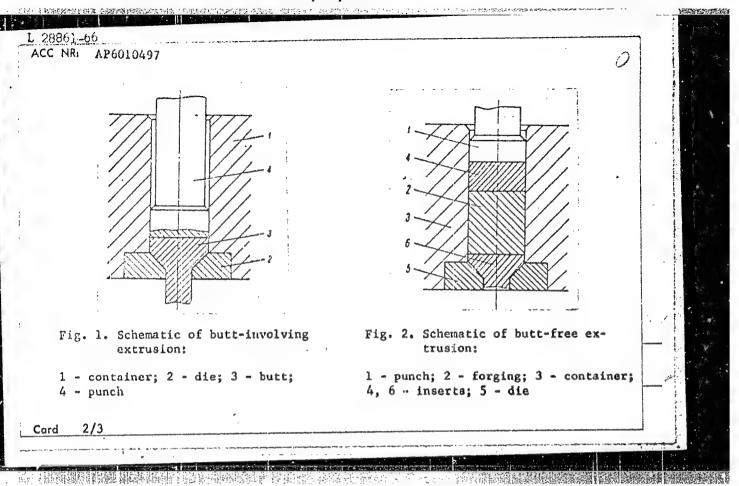
TITLE: Butt-free extrusion of tool steels

SOURCE: AN BSSR. Vestsi. Seryya fizika-tekhnichnykh navuk, no. 3, 1965, 93-95

TOPIC TAGS: tool steel, metal extrusion, hot die forging, solid lubricant / 9KhS tool steel, R18 tool steel

ABSTRACT: Hot extrusion usually is accomplished in such a way that at the end of the process of deformation a part of the forging (the butt) always remains in the container and die under the punch (Fig. 1). In most cases the butt is a production waste which must be removed after the product is ejected from the die assembly. This restricts the possibilities for using such a highly effective forming method as hot extrusion, particularly as regards the fabrication of intricate shapes from expensive alloys and high-alloy steels. In this connection, the authors developed a method of butt-free hot extrusion of solid and hollow shapes from structural and high-alloy tool steels (9KhS, R18, etc.). The principle of this method is as follows: an intermediate link or "insert" (Fig. 2) is placed in between the punch and the forging; the height of the insert is not lower than that of the die. The material of this insert

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CIA-RDP86-00513R001653810020-5

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ACC NR: AP6010497

must withstand considerable loads without a change in its properties, its strength should be lower than the strength of the extruded metal and it should display the qualities of a lubricant. So far, of the materials investigated for this purpose, the best results were displayed by a graphite-clay-silica mixture subjected to thermal or chemical hardening after its molding; remains of the carbon electrodes of electric are furnaces also are suitable. This development not only assures a successful butt--free hot extrusion but also displays other positive aspects. Thus, early during the extrusion part of the "insert" flows into the gap between the punch and the container and, throughout the distance traveled by the punch, provides a uniform layer of lubricant, which completely precludes jamming of the punch. Toward the end of the extrusion the material passes through the die and disintegrates into powder, which facilitates its removel for re-use. This technique also improves the condicions for automating the process of hot extrusion. Further, owing to the attendant improved lubricability of the die and product surfaces and shorter time of contact between the product and the die, galling is reduced and thus the wear of die also is reduced while the dimensional stability and surface quality of the extruded products are at the same time improved. With the aid of this technique the authors successfully hot-extruded solid and hollow reamers of 9KhS R18 and 40Kh steels in crank presses. It turned out that this technique assures metal savings of 30-70%, reduces production cost, increases productivity, and markedly improves the quality of the tools (reamers countersinks, screw taps) thus extruded. Orig. art. has: 2 figures.

SUB CODE: 11, 13/ SUBM DATE: none/ ORIG REF: 002

Cord 3/3 6 64

Subhodray, N. B. "From the personal recollections on Academician N. N. Burdenko (Period of the Great Tatherland War), "Eravookhraneniye Sov. Latvii, 126f, Summesium 2, p. 117-70

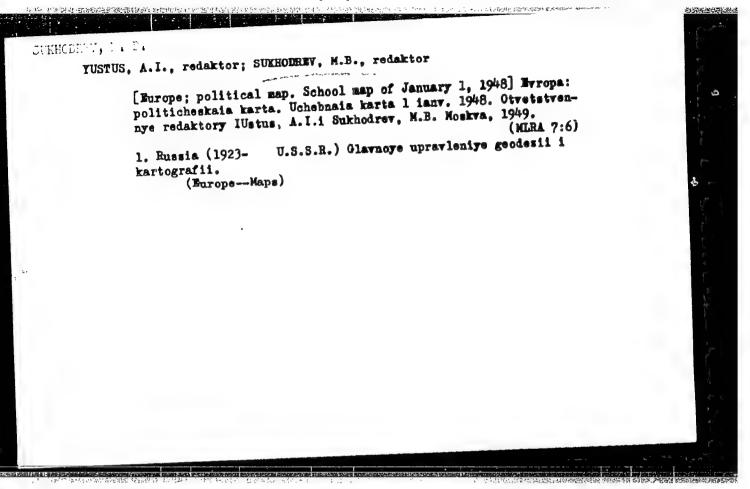
So: M-3670, 16 June 53, (Letousic 'Zhurmal 'nykh Statey, No. 5, 1949)

SUKHODREV, M.B., redaktor

[Asia; physical map] Ariia; fisicheskaia karta. Otvetstvennyi redaktor Sukhodrev, M.B. Moskva, 1949. (MLRA 7:6)

1. Russia (1923- U.S.S.R.) Glavnoye upravleniye geodesii i kartografii.

(Asia--Maps, Physical)



SUKHODREY, 4.B., redaktor

[Burnes; political map. School map of January 1, 1950] Evropa:
politicheakala karta. Uchebnaia karta 1 ianv. 1950 g. Otvetstvennyi redaktor Sukhodrev, M.B. Moskva, 1951. (MLRA 7:6)

1. Russia (1923- U.S.S.R.) Glavnoye upravleniye geodesii i
kartografii.
(Europe--Maps)

LAPSHINA, T.M.; SOLDATOV, S.N.; SUKHODREV, M.B.

Representing settlements on school geography maps. Geod.i kart.
no.7:50-60 8 '56. (MLRA 9:11)

(Cartography)

SUKHODREV, M.B.; BLYUGER, A., red.; MIMONOV, A., tekhn. red.

[Baldone Health Resort] Kurort Baldone. Riga, Latviiskoe gos.
(MIRA 14:12)

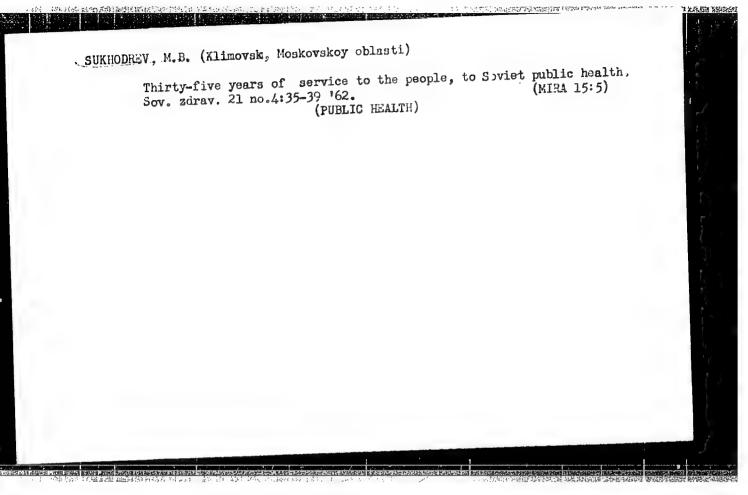
izd-vo, 1959. 63 p.
(BALDONE—HEALTH RESORTS, WATERING PLACES, ETC.)

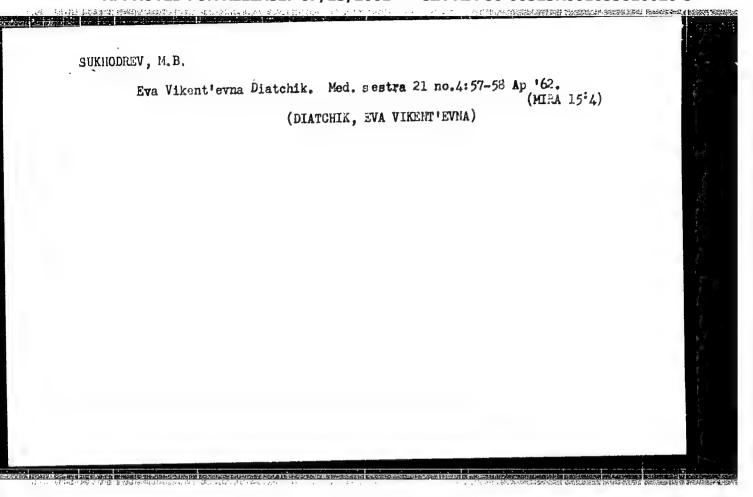
ROSTOTSKIY, I.B., dotsent; SUKNODREY, M.B.

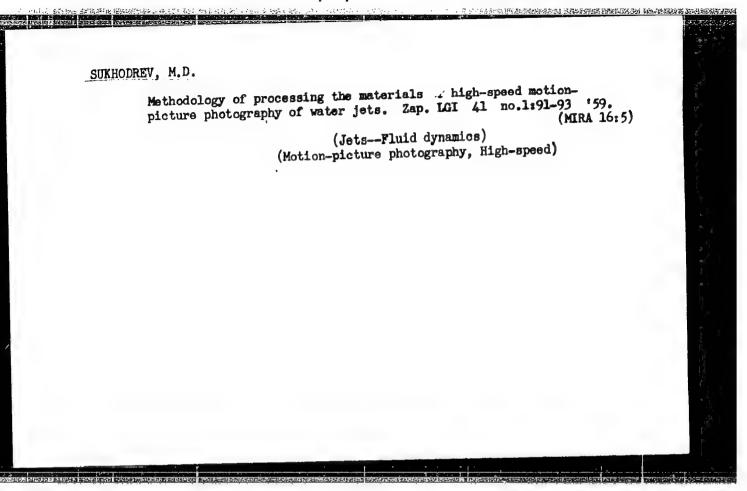
Problems of health protection for women in specialized Russian
literature. Sov. zdrav. 19 no.6:82-86 '60. (MIRA 13:9)
(WOMEN-HEALTH AND HYGIENE)

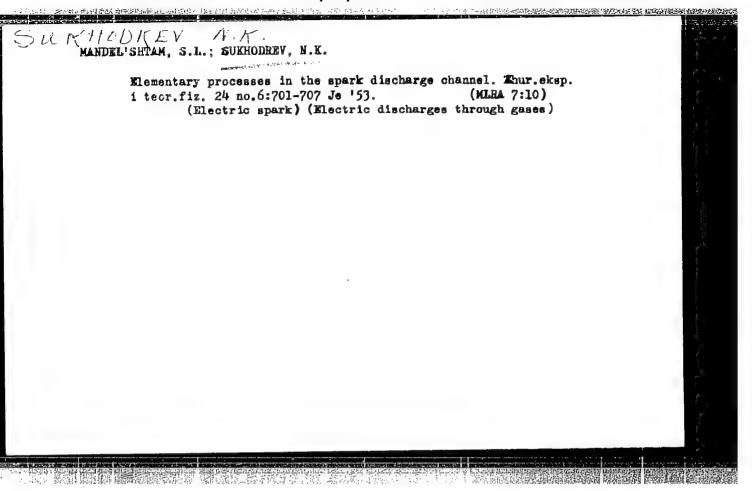
SUKHODREV, M.B. (g.Klimovsk, Moskovskoy oblasti)

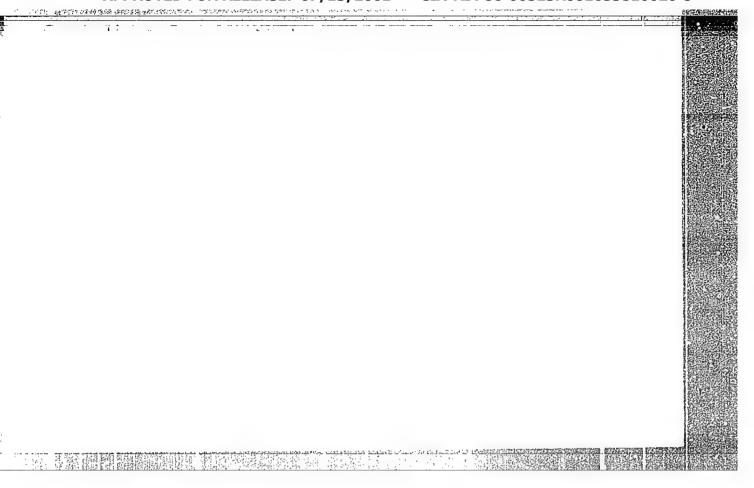
Nikolai Aleksandrovich Gerasimov and his role in the development of industrial medicine in Moscow Province. Fel'd i akush. 25 no. 10:42-46 0 '60. (MIRA 13:10) (GERASIMOV, NIKOLAI ALEKSANDROVICH, 1879-1943)











MANDEL'SHTAM, S.L.; SUKHODREV, N.K.

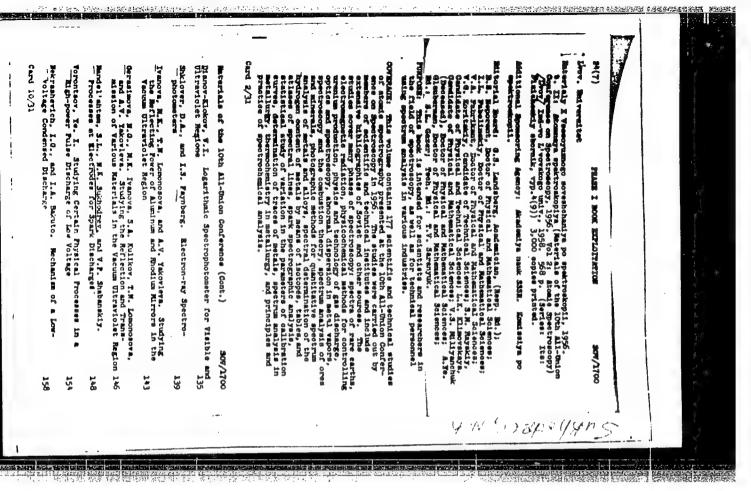
Applicability of Kirchoff law to the emission of gaseous dis-

charge plasma. Izv. AN SSSR Ser. fiz. 19 no.1:11-14 Ja-F 155.
(MIRA 8:9)

1. Fizicheskiy institut imeni P.N.Lebedeva Akademii nauk SSSR (Spectrum analysis) (Spectrometer)

"APPROVED FOR RELEASE: 07/13/2001

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7

Electrical Contacts (Cont.)

sov/1855

apparatus primarily influencing the reliability of electric systems, especially d-c control systems. Their physical, thermal, mechanical and chemical processes have still not been well analyzed. References are given at the end of most of the reports.

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Foreword

I. PHYSICAL PROCESSES

Kragel'skiy, I.V. (Institut mashinostroyeniya AN SSSR - Machine-Building Institute, Academy of Sciences, USSR) Contact Area of Rough Surfaces According to the author, ideal smooth surfaces of mica protrusions measure 20 A, on the best quartz crystal 100 A, on highly polished metal surfaces 0.05 - 0.1 micron, and on rough metal surfaces 100-200 microns. Moreover, the machined surfaces usually have a wavy structure. The author has devoted his paper to finding methods of calculating the actual area of contact of surfaces. After a detailed theoretical and practical analysis he derives formulas for practical use by designers. There are 6 references,

of which 5 are Soviet and 1 English.

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electrical Contacts (Cont.)	sov/1855	
fanas'yev, N.V. (Belorusskiy politekhnicheskiy instolytechnical Institute) Erosion of Electric Contact The author reports results of experimental invest him at the Belorussian Polytechnical Institute of mal characteristics of some metals on their abilithe supplies tables which enable designers to make the erosion resistance of a material by knowing in	t Materials 50 igation carried out by on the influence of ther- ty to withstand erosion. advance judgements of	
azumikhin, M.A. Increasing the Erosion Resistance n Automatic Apparatus The author reports the results of experimental in and arc or bridge erosion under operating conditi tact metals, air pressure and various gas mediums 5 quench circuits (spark discharge circuits) used citions.	63 vestigation of spark ons for various con- • He also discusses	
ugin, A.I. (Institut metallurgii - Institute of Mees, USSR) Function of Electric Contact in the Procoint The author details his investigation of this probtance in the welding process consists of the resiard 4/11	ess of Forming a Welded 79 lem. The total resis-	The state of the s

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Electrical Contacts (Cont.)

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Fiks, V.I., and M.A. Gurevich. (Zavod "ATE-1"-Moscow "ATE-1" Plant)
Contacts of Vibrator Voltage Regulators

156

The authors summarize the results of investigations they carried out in the Electric Machine Laboratory of the "ATE-1" Plant along with Engineers Ye.K. Shvedov, V.I. Khrunin, Ya.M. Levit, L.B. Bayer, R.V. Gorelov, O.G. Suchkova on operating conditions of contacts in vibrator voltage regulators of automobile generators, on the design of contact fittings and on various pairs of contact metals.

III. PRODUCTION AND CHARACTERISTICS OF CONTACT MATERIALS

171

Al'tman, A.B., I.P. Melashenko, and E.S. Bystrova (Nauchno-issledovatel'skiy institut elektrotekhnicheskoy promyshlennosti - Scientific-Research Institute for the Electrical Industry) Modern Sintered-Metal Electric Contacts. 171 Sintered metals are presently the most suitable materials for arcing tips of high-duty circuit-breakers. The authors explain the technical requirements, describe the structure of the compositions, methods of production, characteristics and applications.

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中一个清朝的国内教教儒系(1915年),由1916年

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Dekabrun, I.Ye. 'Institute of 'utomation and Telement Characteristics of Some Sintered 4etal Contact Mater The author describes arrangements and equipment investigation. He gives the results of the study teristics of the most used composition.	rials 244
Shumskaya, Ye.A. (NII - Avtopriborov) Wear Resister The author describes her investigation of cut turn to the effect of internal structure and method of to wear.	
Usov, V.V. and Povolotskaya, M.D. (Nauchno-issledov elektrotekhnicheskoy promyshlennosti - Scientific-re Electrical Industry) Atmospheric Corrosion in Tungs A description of experiments on the above problem	sten Contacts 210
Rudnitskiy, A.A. (Institut metallurgii AN SSSR - Metal Academy of Sciences, USSR) Alloys of Precious Metal Materials for Very Low Voltages and Currents The author analyzes the characteristics and resis mechanical wear of various alloys composed of met Card 9/11	s as Electric Contact 255

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Kozlov, V.Z. State of the Production and Standardization of Contacts and Contact Materials From Precious Metals

293

The author describes briefly the developments obtained in the production of contacts made from alloys of precious metals. Considering the great number of contact and contactor types, the author expresses the opinion that a standardization of types is necessary. He suggests the creation of a special organization for the coordination of scientific research activities on contacts of all kinds and the standardization of metals and alloys used in these.

Discussion

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In the general discussion participated besides the authors of the above articles, L.S. Palatnik (KhGU), R.S. Kuz'netsov (NII EP), Ye.V. Podol'skaya (Khar'kovskiy elektromekhanicheskiy zavod - Kharkov Electromechanical Plant), N.Ye. Lysov (MEI), I.G. Kislyakov (Moskovskiy institut tsvetnykh metallov i zolota - Moscow Institute for Nonferrous Metals and Gold), M.N. Tylkina (IMET AN SSR), L.A. Rotshteyn (Zavod "Elektrosita" - "Elektrosila" Plant' L.M. Voronel' (Cheboksarskiy elektroapparatnyy zavod - Cheboksary Electric Apparatus Plant), P.V. Smirnova.

Conference Resolutions

AVAILABLE: Library of Congress

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Card 11/11

8-20-59

SUKHODREV, N. K. Cand Phys-Math Sci -- (diss) "On the excitation of spectra in spark discharges." Mos, 1959. 12 pp (Acad Sci USSR. Physics Inst im P. N. Lebedev), 150 copies. Bibliography at end of text (18 titles) (KL, 52-59, 116)

-10-

"APPROVED FOR RELEASE: 07/13/2001

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24(3), 24(7)

SOV/ 51-6-6-2/34

AUTHORS:

Sukhodrev, N.K. and Mandel'shtam, S.L.

TITLE:

On the Temperature of Electrode Vapours in a Spark Discharge (O temperature parov elektrodev v iskrovom razryade)

FERIODICAL sOptika i spektroskopilys, 1959, Vol 6, Nr 6, pp 723-728 (USSR)

Vapour temperatures in a spark are usually assumed to be equal to electron temperatures of atoms and ions of the vapour. Electron temperature can ABSTRAC1 . be determined from the relative intensity of two or more spectral lines, provided atoms are distributed in excited levels according to Boltzmann's law. Earlier measurements (Refs 2, 3) yielded values ~10 000°K for temperatures of electrica vapours in electric aparks; these values refer to colder (outer) parts of vapour clouds ("flames"). The present paper discusses determination of temperatures in hotter parts of vapour clouds. Al III, Sn IV and Si IV lines were used (Table 1). Aluminium, tin and silicon were used because their atoms have sufficiently high ionization and excitation potentials to allow determination of temperatures above 10 000°K. A glass spectrograph ISP-51 was used for Al III lines (visible region) and a quartz spectrograph ISP-22 was used for Sn IV and Si IV lines (ultraviolet region). The apparatus used is shown in Fig 1. The image of a spark S1 was focused on a spectrograph slit via an intermediate slit d a concave mirror O2 and a rotating plane

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"APPROVED FOR RELEASE: 07/13/2001

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SOV/51-6-6-2/34

On the Temperature of Electrode Vapours in a Spark Discharge

mirror M1. The latter was rotated at 1-3 mm/sec producing a time scan (display) of the spark on a recording film in the spectrograph. The time resolution of the spark spectra ranged from ~0.04 to 0.1 µsec. Starks were synchronized with rotation of M1 by means of a device, shown at the bottom of Fig 1, which ensured that a spark at S1 was produced when the image of S1 was focused at the spectrograph slit. The spark discharge circuit parameters were: C = 0.01-1 µF, L = 2-3000 µH. voltage across the spark gap S1 was 15 kV and the distance between electrodes was 2.5 mm. A record of a spectrum obtained between tin electrodes is shown in Fig 2: it contains Sn IV, Sn I, N II and O II lines. The results are given in Tables 2-6. Table 2 refers to sparks between tin electrodes (Sn IV lines). The results of Table 3 (Sn IV lines) were obtained with one tim and one copper electrode. Table 4 gives temperatures deduced from Sn IV and N II lines. Table 5 gives the results obtained with one aluminium or 10%-Al bronze electrode (Al III lines). Table 6 gives temperatures deduced from experiments with "silumin" electrodes containing 10% Si (Si IV lines). The temperatures deduced from Sn IV lines were ~28 COOOK, from Al III lines they were 30 0000K and from Si IV lines they were 35 0000K. Because of high scatter of the results

Card 2/3

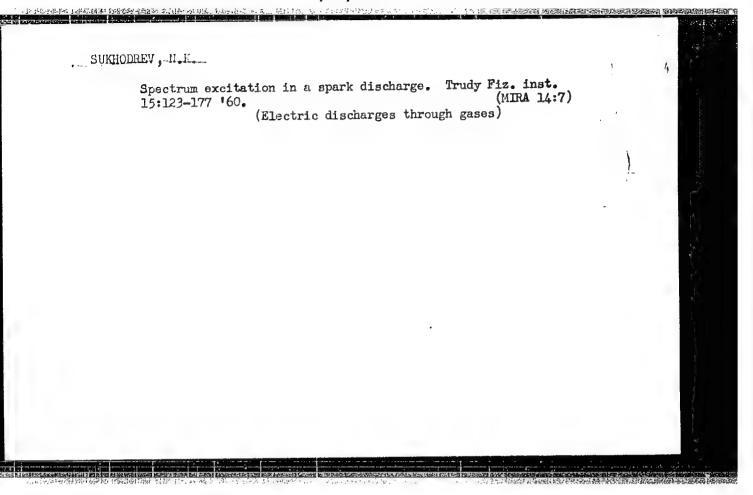
On the Temperature of Electrode Vapours in a Spark Discharge

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it was impossible to say whether the differences between these three sets of temperatures were due to a definite cause or accidental. Since the spark-channel temperature, deduced from N II and N III lines, is \$25 000°K, the results obtained suggest that tin, aluminium and silicon vapours were heated and excited in the spark channel itself. Acknowledgments are made to L.P. Malyavkin and V.K. Bardin for their help in experimental work. There are 3 figures, 6 tables and 13 references, 6 of which are Soviet, 2 English, 1 German and 4 international.

SUBMITTED: July 8, 1958

Card 3/3



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24.6200 (1482,1160)

AUTHOR:

Sukhodrev, N. K.

TITLE:

Spectrum excitation in a spark discharge

PERIODICAL: Akademiya nauk SSSR. Fizicheskiy institut. Trudy, v. 15,

1961, 123 - 177

TEXT: This dissertation for the degree of Candidate of Physical and Mathematical Sciences, written under the supervision of Professor S. L. Mandel'shtam, Doctor of Physical and Mathematical Sciences, was defended at the Fizicheskiy institut im. P. N. Lebedeva AN SSSR (Physics Institute imeni P. N. Lebedev, AS USSR) on December 21, 1959. The purpose of the investigations, which were carried out in the laboratoriya spektroskopii FIAN (Spectroscopy Laboratory of FIAN), was to clarify the excitation mechanism of the spectrum - the ionization and the excitation of air atoms and of the atoms of the vapors of the electrode material. Measurements were only made on spark discharges in air under atmospheric pressure. The dissertation is divided into

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Spectrum excitation in a...

four chapters: 1) Elementary processes of excitation and ionization of atoms in the spark channel (review of publications, discussion of the hydrodynamical theory of the development of the spark channel, developed at FIAN; discussion of theoretical results); 2) description of the measuring technique and of the experimental arrangement used to measure the temperature in the spark discharge (arrangement and electronic equipment are shown in Figs. 4 and 5. MCN-51 (ISP-51) and MCN-22 (ISP-22) spectrographs were used. Pictures were taken with Agfa "blaurapid" spectral plates); 3) presentation and discussion of the results of temperature measurements (mean electron temperature, Te = 33,000 K; description of additional measurements on powerful discharges, carried out jointly with Professor V. V. Burgsdorf and A. S. Maykopar at the test stand of TsNIEL in the Leninskaya podstantsiya Mosenergo (Lenin Branch Station of Mosenergo) with an MCN-65 (ISP-65) spectrograph; discussion of results): 4) investigation of electrodic processes in the spark discharge (experimental and theoretical; microphotographs). Following are the most important results: 1) The distributions of atoms in relation to excited levels and degree of ionization correspond to Boltzmann's or Sag's formula with the electron temperature as a

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Spectrum excitation in a...

parameter. These distributions are attained after about 10-7 sec. Since the gas temperature and electron temperatures are equilibrated within the same time, the plasma in the spark channel is characterized by one single temperature T after about 10 7 sec. 2) The temperature in the spark channel was spectroscopically determined from the N II line, both on ordinary discharges produced in the laboratory and on powerful discharges, and was found to vary from 30,000 to 40,000 K. The maximum temperature of the electrode vapors was determined from the lines Al III, Sn IV, and Si IV, and was found to vary from 30,000 to 35,000°K. The temperature values proved to be almost independent of the circuit parameters. These high temperatures of the spark discharge in air by far exceed those of other sources, e. g., flames (1500 - 3000 K) or arc discharges (5000 - 7000 K), and are responsible for the particularities of the spark spectrum, i. e., the exceptional brightness of the lines and the excitation of ionic spectra. The electron concentration ($N_e \approx 10^{17} cm^{-3}$) exceeds that in an arc discharge by two orders of magnitude, and entails a line broadening and high intensity of the continuous spectrum. 3) Vapors of the electrode Card 3/8

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27604 5/504/61/015/000/002/002 B102/B104

Spectrum excitation in a...

material leave the electrodes without emitting visible light, and are only excited in the spark channel. A study of the dynamics of the motion of flares in the spark has shown that a jet is formed on the cathode. The dark space round the electrodes is of the order of 0.2 -0.3 mm. The author thanks Professor S. L. Mandel'shtam for guidance, V. P. Shabanskiy and L. A. Vaynshteyn for discussing the theoretical part, as well as Senior Scientific Worker S. V. Lebedev, Engineer L. P. Malyavkin, and V. K. Bardin for assistance. S. I. Drabkina, I. S. Abramson, N. M. Gegechkori, S. I. Braginskiy, M. P. Vanyukov, V. I. Isayenko, L. D. Khazov, G. G. Dolgov, A. M. Leontovich, L. P. Malyavkin, N. K. Sukhodrev, A. D. Sakharov, B. M. Yavorskiy, V. A. Fabrikant, L. D. Landau, D. B. Gurevich, V. K. Prokof'yev, D. A. Rozhanskiy, V. I. Zimin, Ye. I. Vorontsov, V. M. Zimin, I. G. Nekrashevich, Lyubimov, S. M. Rayskiy, N. N. Sobolev, B. R. Lazarenko, and A. A. Mak are mentioned. There are 23 figures, 16 tables, and 72 references: 41 Soviet-bloc and 31 non-Soviet-bloc. The two most recent references to English-language publications read as follows: J. M. Somervill, S. T. Grainger. Brit. J. Appl. Phys., 7, 109 (1956); J. M. Somervill et al. Proc. Phys. Soc., 65B, 963 (1952). Card 4/8

39298 \$/048/62/026/007/029/030 B117/B144

14 3430

AUTHORS:

Uvarova, V. M., Sukhodrev, N. K., Pankova, A. A.,

Shpol'skiy, M. R., and Kovanova, A. N.

TITLE: New photomaterial of the NIKFI for spectrum analyses in the

short-wave region of ultraviolet radiation

PERIODICAL: Akademiya nauk SSSR. Izvestiya. Seriya fizicheskaya, v. 26,

no. 7, 1962, 967-968

TEXT: This report given at the XIV Soveshchaniye po spektroskopii (XIV Conference on Spectroscopy) deals with new films for vacuum ultraviolet radiation. The TM-11 (RM-1L) film with highly sensitive emulsion sensitized with luminohores had been developed by the NIKFI (A. O. Kondakhchan) and the Shostkinskiy khimicheskiy zavod (Shostka Chemical Plant). The VΦ-MAKQM (UF-NIKFI) film little sensitive to visible light, with an emulsion consisting of highly concentrated silver halide and small amounts of gelatin, was produced by a method (thin-layer separation) developed by K. S. Bogomolov, M. Yu. Deberdeyev, A.A. Sirotinskiy and members of the NIIKHIMMASh. The new films, especially UF-NIKFI

Card 1/2

"APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001653810020-5

SUKHODREV, N.K.

Exciting spectrum in spark discharge. Acta chimica Hung 30 no.3:285-293 162.

1. Fizicheskiy institut im.P.N. Lebedeva Akademii Nauk SSSR, Moskva V-17.

ACCESSION NR: AP4043038

5/0077/64/009/004/0286/0288

AUTHORS: Kalinkina, T. A.; Kovanova, A. N.; Pankova, A. A.; Sukhodrev, M. K.; Uvarova, V. M.; Shpol'skiy, H. R.

TITLE: NIKFI photographic materials for the vacuum ultraviolet region of the spectrum and their characteristics

SOUNCE: Zhurral nauchnoy i prikladnoy fotografii i kinematografii, v. 9, no. 4, 1964, 286-288

TOPIC TAGS: ultraviolet photographic film, film characteristic, film sensitivity, silver halide, / ISP 22 spectrograph, DFS 6 vacuum spectrograph

ABSTRACT: The solution of many problems has been hampered by the lack of photographic film sensitive to the vacuum ultraviolet (UF) spectrum (λ <2200 Å) as a consequence of strong absorption in the gelatin of the emulsion layer of existing film. NIKFI developed five types of films sensitive to the far UF and soft x-ray region by using a new method of preparing photographic emulsion with a high concentration of silver halide in which a large portion of the gelatin is replaced by surface active substances. The five films differed in size of the AgHal microcrystals and had different sensitivities. The air-dried emulsion layer \sim 10 μ

Card | 1/4

ACCESSION NR: AP4043038

2/4

Card

thick was coated on a triacetate base and hardened so that water at temperatures up to 1000 did not molt it. The photographic properties of the film (see Table l on the Enclosure) were measured in the visible, near UF region ($\lambda \sim$ 2300 Å) and vacuum UF region (2000 A > A > 200 A). The films UF-2 and UF-3 were developed for 8 minutes in developer D-19 at 20C and the other film developed similarly for 4-6 minutes. The standard method of sensitometric measurements was used for the visible region; for $\lambda = 2300$ Å a mercury lamp in a ISP-22 spectrograph with a nine-stage attenuator was used. Characteristic curves (D versus log It) were obtained for all films at λ = 2300 Å. Films UF-1, UF-2 and UF-3 have low visible sensitivity ideal for "hot" object work. The vacuum UF region was studied using a DFS-6 vacuum spectrograph with a low voltage vacuum spark between titanium electrodes as a light source. The relative spectral sensitivities of films UF-1, UF-2, and UF-3 were obtained at points over the range 200-3000 % and the contrast factor for these films for λ 200-800 Å ranged from 0.7 to 1.0, while the other films had a smaller contrast. The storage properties were good and were maximized by storage in a polyethylene pack at 5-70 (e.g., UF-1 stored two years lost 40% of its sensitivity at $\lambda = 2300$ Å, had no hazing, and preserved its contrast). The preservation of the film was attributed to the high colloidal stability

"APPROVED FOR RELEASE: 07/13/2001 CIA-RI

CIA-RDP86-00513R001653810020-5

ACCESSION IR: APA043038

of the Agilal microcrystals and the presence of colloidal stabilizers in the omulsion layer. Orig. art. has: 1 table and 2 figures.

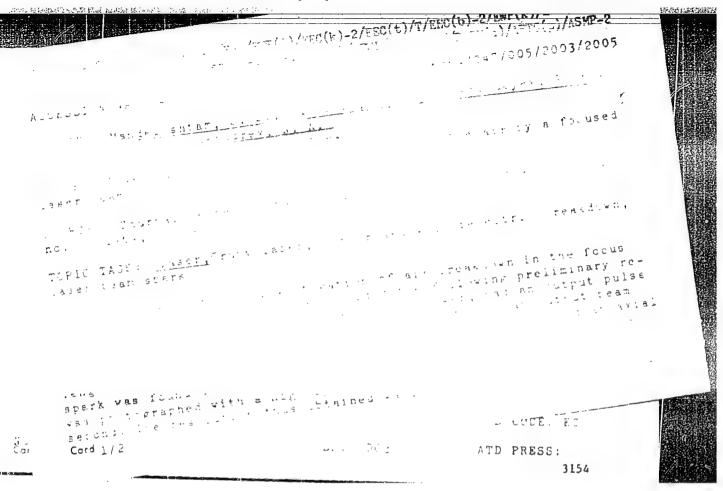
ASSOCIATION: Vsesoyuzny*y mauchno-issledovatel*skiy kinefotoinstitut (NIKFI) (All-Union Motion Picture and Photography Scientific Research Institute)

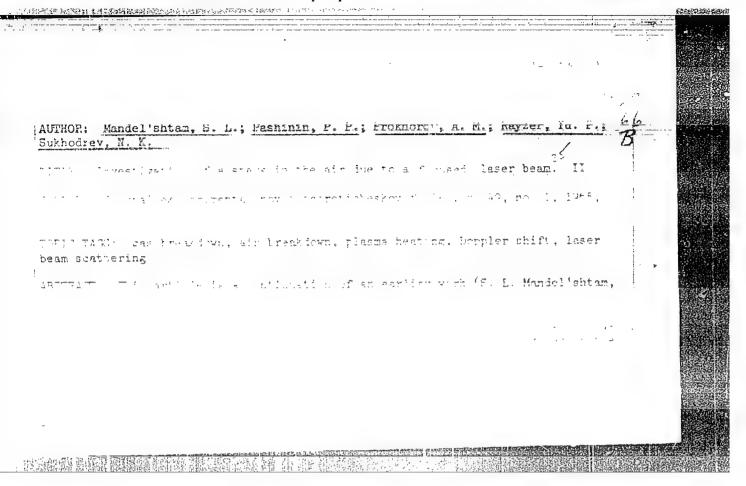
SUBMITTED: O80ct63

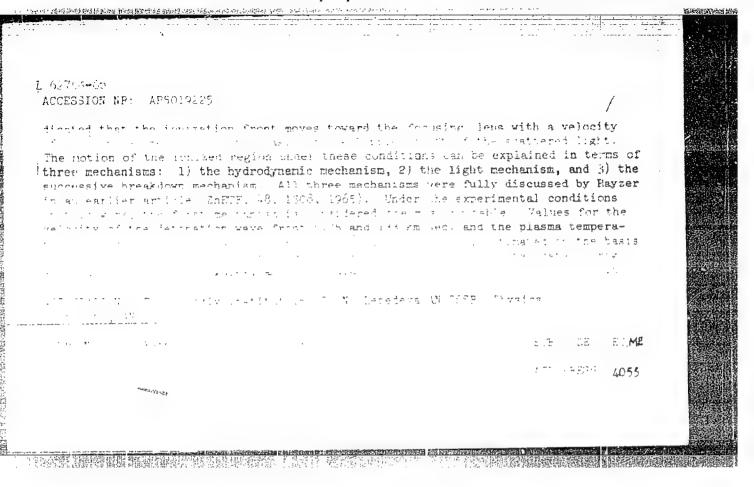
SUB CODE: OP,ES

NO REF SOV: OC2

OTHER: OCO







22732-66 FIC(1) LIP(c) AT ACC NR: AP6018343 SOURCE CODE: GE/0036/66/006/001/0001/0008 AUTHOR: Mandel'shtam, S. L.; Pashinin, P. P.; Prokhorov, A. M.; Rayzer, Yu. P.; B Sukhodrev, N. K. ORG: Physics Institute im. P. N. Lebedev, AN SSSR, Moscow (Fizicheskiy institut AN SSSR) TITLE: Investigation of a spark in air formed during focusing of emission from a laser SOURCE: Beitrage aus der Plasma Physik, v. 6, no. 1, 1966, 1-8 TOPIC TAGS: dimer nonlinear outlines all breakdown laser emission, plasma decay, laser beam, ruby laser, plasma temperature, line shift, Doppler shift ABSTRACT: An experimental investigation was conducted of air breakdown produced by a Q-switched ruby laser (pulse energy 2-2.5 j, pulse duration 30 μsec). The authors analyzed the last two stages of the breakdown process, which according to them can be subdivided into the following three stages: 1) the breakdown stage (rapid increase in the number of free electrons); 2) the quasi-stationary stage (dense plasma is maintained by the absorption of energy of the laser beam); and 3) the afterglow stage (decay of plasma after the laser pulse ceases). From the soft x-ray emission of the plasma (at about 10 Å) due to continuous recombination of N^{5+} , N^{6+} , N^{7+} , 0^{6+} , 0^{7+} , 0^{8+} the maximum electronic temperature of the plasma in the breakdown region was determined to be = 60 ev. The width of the laser line scattered by the plasma during the second stage was determined to be = 1-1.4 Å; the shifting of the line was found to vary at different positions near the focal region of the laser beam with the maximum shift

PERMYAKOV, E.S., kand. tekhn. nauk; SUKHODREV, V.M., gennyy inzh.; GPACHEV, F.G., kand. tekhn. nauk

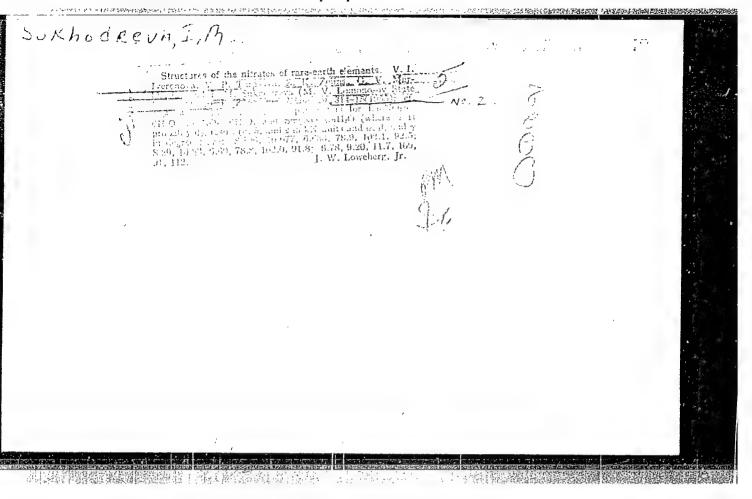
Roller bit drilling in apatite open-cut mines. Gor. znur. no.10:19-22 0 '65. (MIRA 18:11)

1. Gornokhimicheskiy ordena Lenina kombinat "Apatit" im. S.M. Kirova (for Fermyakov, Sukhodrev). 2. Gosudarstvennyy nauchnc-issledovatel'skiy institut gornokhimicheskogo syr'ya (for Grachev).

GRACHEV, F.G., kand. tekhn. nauk; SMIRNOV, V.A., gornyy inch.; YELIN, S.M., gornyy inzh.; SUKHOLREV, V.M., gornyy inzh.; TOFOCHEOT, G.S., gornyy inzh.

Using the RSSh-1 roller bit toring machine in apatite strip mines. Gor. zhur. no.8:37-39 Ag '64. (MIRA 17:10)

1. Gosudarstvennyy nauchno-issledovatel'skiy institut gornokhimicheskogo syr'ya (for Grachev, Smirnov). 2. Kombinat "Apatit" (for Yelin, Sukhodrev, Torochkov).



ACCESSION NR: AT4013982

5/3070/63/000/000/0137/0139

-Color in the Color of the Colo

AUTHOR: Abramov, V. F.; Zakharov, V. I.; Sukhodreva, I.M.

TITLE: Attachment to Diffractometer URS-50I for Determining the Orientation of Germanium and Silicon Single Crystals

SOURCE: Novy*ye mashiny*i pribory* dlya ispy*taniya metallov. Sbornik statey. Moscow, Metallurgizdat, 1963, 137-139

TOPIC TAGS: germanium crystal orientation, silicon crystal orientation, crystallographic plane, diffractometer, metal crystal, crystal orientation

ABSTRACT: The use of ionization methods for registration of reflected X-rays permits a faster determination of crystallographic orientation of single crystals. G. F. Komovskiy and L. A. Voskresenskaya applied the URS-50I diffractometer for determination of orientation of germanium single crystals, and obtained a precision up to 30', provided that deviations of the crystallographic plane from the outer face of specimen were not greater than 6°.

Card 1/6

ACCESSION NR: AT4013982

bracket, and can have a maximum incidence angle of 40°. Remote control is provided to rotate the specimen about the horizontal axis in order to protect the operator. Fine adjustment is achieved by rotation of a handwheel on the receiver selsyn. One revolution of the handwheel produces a 6° rotation of the specimen. Rotation about the vertical axis is performed by the goniometer rotating mechanism. The described attachment permits the determination of the orientation of crystallographic planes (100), (110), (111) in monocrystallic germanium and silicon ingots when the deviation of these planes from the face planes of the ingots does not exceed 6.5; 17; 13° and 5;16; 13.5° for germanium and silicon, respectively. After determination of angle, corresponding to the maximum intensity of reflected rays, a horizontal line is scribed on the ingot along the edge of the rectangular cut-out in the angle bracket. This line is perpendicular to the line of intersection of the face plane with the crystallographic plane. The scribed line on the ingot and the value of angle determine the orientation for slicing of the ingot in planes parallel to the selected crystallographic plane. The attachment permits handling of ingots 15 - 45 mm in diameter and 100 mm long. In serial work, total errors in determination of orientation are ± 15'. Orientation time for one ingot is 5 minutes, and for checking a slice 2 minutes. Orig. art. has 1 figure.

3/6

Card

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ACCESSION NR: AP4013493

\$/0181/64/006/002/0390/0392

AUTHOR: Sukhodreva, I. M.

TITLE: Dislocations arising during diffusion of phosphorus in silicon, observed by anomalous passage of x rays

SOURCE: Fizika tverdogo tela, v. 6, no. 2, 1964, 390-392

TOPIC TAGS: impurity diffusion, phosphorus, silicon, x ray, BSV 3 x ray tube, GUR 3 goniometer, URS 501 x ray equipment, MK emulsion, NIKFI photographic plate

ABSTRACT: The author is concerned with the possibility of studying the structure of a diffusion layer by anomalous passage of x-rays through the layer. She used samples of silicon cut along the (lll) plane and allowed phosphorus to penetrate to a depth of about 100 microns. The surface concentration of phosphorus then proved to be about $2 \cdot 10^{20}$ cm⁻³. X-ray photographs were made with Cu radiation from a BSV-3 tube. Immediately after diffusion and removal of the surficial oxide lays. no anomalous passage of x-ray was detected. Destruction near the surface was apparently so great that passage of the wave field was prevented. The surface

Card 1/2

ACCESSION 1: API,013493

was then etched with a combination of nitric, fluoric, and glacial acetic acids. Characteristic cell structure with point defects was then observed. A net of dislocations was detected, the individual dislocations lying along one of three directions 120° apart, all in the (111) plane. Results show that when P is diffused through dislocation-free silicon (at high concentrations of P), dislocations will develop and will reach deep into the silicon, reaching deeper when the diffusion of P is deeper. (The freedom from dislocation of the initial sample was verified by x-ray study.) Orig. art. has: 2 figures.

ASSOCIATION: none

SUBLITTED: 18Jul63

DATE ACQ: 03Mar64

ENCL: 00

SUB CODE: SS, EC

NO REF SOV: 002

OTHER: 007

Card 2/2

· 公司中心可以发展的原因的企业的通过企业的通过的企业的 L 00621-67 EFT(1)/EWT(m)/T/EWP(t)/ETI IJP(c) LHB/JD SOURCE CODE: UR/2564/65/005/000/0338/0343 ACC NR: AT6020038 AUTHOR: Sukhodreva, I. M. ORG: none TITLE: The study of the structure of germanium dendrite by the method of anomalous transmission of x rays SOURCE: AN SSSR. Institut kristailografii. Rost kristallov, v. 5, 1965, 338-343 TOPIC TAGS: x ray crystallography, germanium compound, dendrite, crystal structure ABSTRACT: The present article describes the study of defects and peculiarities of germanium dendrite crystallization by means of anomalous transmission of x-rays (Borrman effect). In the past such an effect has been observed only in perfect monocrystals. Using the URS-50-I/device with a copper anode BSV-3 tube, the author was able to register the Borrman effect on dendrite samples which are not monocrystals; this indicates a high degree of perfection in the crystalline structure of dendrite samples under investigation although separate parts of the dendrite strips exhibit characteristic defects. The new method, illustrated by numerous x-ray photographs, allows a fast nondestructive determination of the presence and distribution of various types of defects (dislocations, pores, slipping traces, etc.)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001653810020-5"

Card 1/2

OSAULENKO, P.L., gornyy inzh.; ROZINOYER, B.L., gornyy inzh.;
SUKHODREV, V.M., gornyy inzh.

Practice of upward drilling of holes in the Kirov apatite
mine. Gor. zhur. no.7:29-31 Jl '63. (MIRA 16:8)

1. Kombinat "Apatit".

sov/180-59-2-31/34

Lakomskaya, G.V., and Sukhedrovskaya, K.A. (Moscow) Contribution on the Acidity of Mineral Coals (K voprosu AUTHORS:

o kislotnosti iskopayemykh ugley) TITLE:

PERIODICAL: Izvestiya akademii nauk SSSR, Otdeleniye tekhnicheskikh nauk, Metallurgiya i toplivo, 1959, Nr 2, pp 164-167 (USSR)

ABSTRACT: The authors report their work on the study of the pH of coals. The first stage was the development of the method, which has some similarity in principle to that of Jacob (Ref 4). The results for various grades and deposits of coal showed that the pH value can vary over a wide value and is not characteristic of a grade. pH does not depend on the total ash content, being affected apparently by both the organic and mineral part of the coal. The rate of oxidation of a coal was found to vary with variation in pH and this suggests that the improvement in storage properties obtained by treatment with calcium bicarbonate solution is due to its influence on the pH as well as to its pore-sealing action (Ref 7).

Card 1/2

SOV/180-59-2-31/34

Contribution of the Acidity of Mineral Coals

The work was carried out under the direction of P.K.Mel'.

There are 2 tables and 7 references, 4 of which are Soviet, 2 German and 1 English.

SUBMITTED: June 28, 1958

Card 2/2

SUKHODROVSKAYA, K.A.; LAKOMSKiYA, G.V.

Significance of coal acidity in determining its content in determining its content of peroxides. Trudy IGI 14:87-90

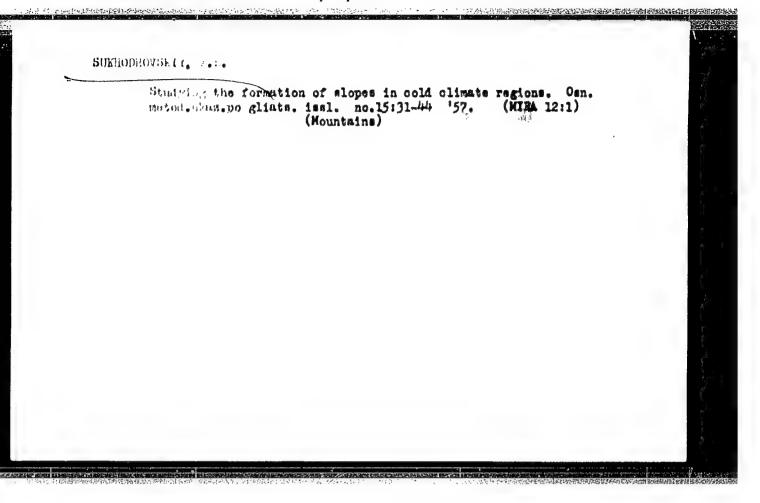
'60. (Goal--Testing) (Oxidation)

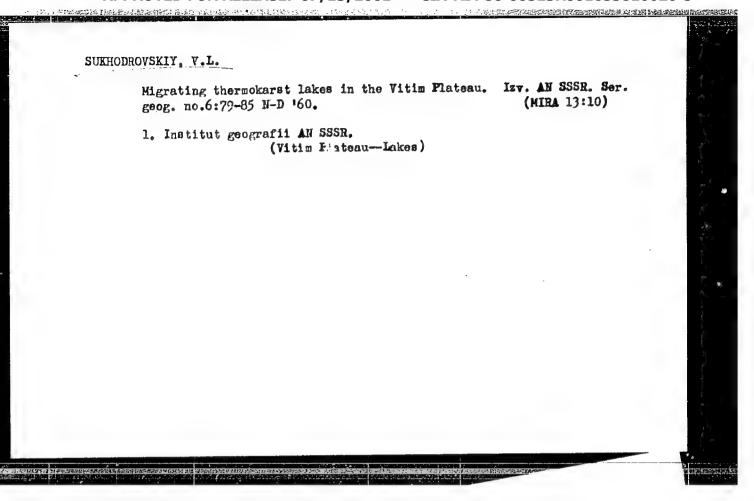
(Goal--Testing) (Oxidation)

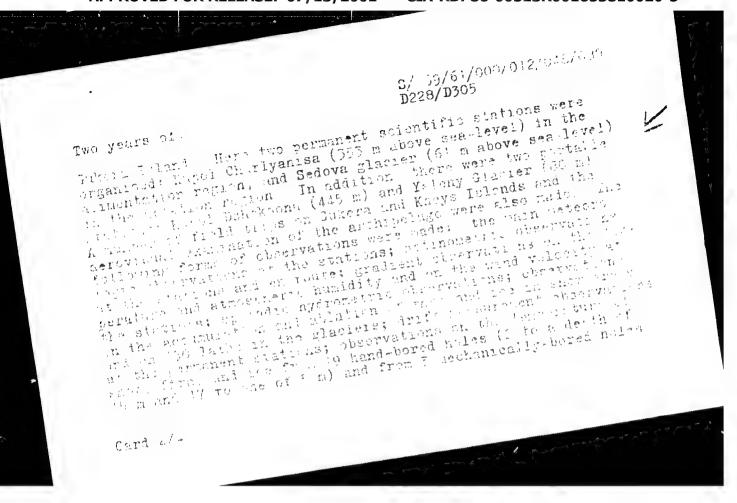
 FRIDMAN, G. Ye.; SUKHODROVSKAYA, K. A.; LAKONSKAYA, G. V.;
KARAVAYEV, N. M.

Coal carbonization during heating in the presence of water under pressure. Trudy IGI 17:76-87 '62. (M.RA 15:10)

(Coal—Carbonization) (Water vapor)







APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001653810020-5"

Two years of ...

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in connection with the high summer air-temperatures is 19.1 and a among the preliminary results of the expedition's work. Danarks, marking the edge of glaciers and permitting the direct substraint of the material balance of the surface over a pulsation related, have been established. The operating scheme of the dipedial on on Guitara Island is also appended. Simple references, Abeliration's note: Complete translation

Chard 4/4

SUKHODROVSKIY, V.L.

Slope processes in the periglacial zone of the Franz Josef Land.

1zv. AN SSSR. Ser.geog. no.6:85-93 N-D '62. (MIRA 15:12)

1. Institut geografii AN SSSR. (Franz Josef Land-Landslides)

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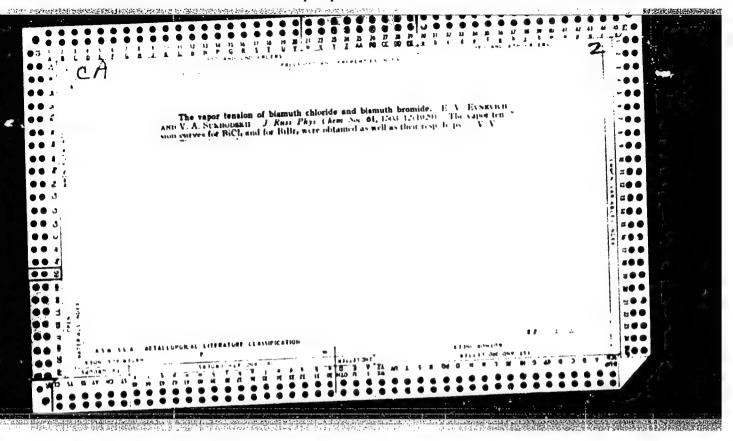
MARKIN, V.A.; SUKHODROVSKIY, V.L.

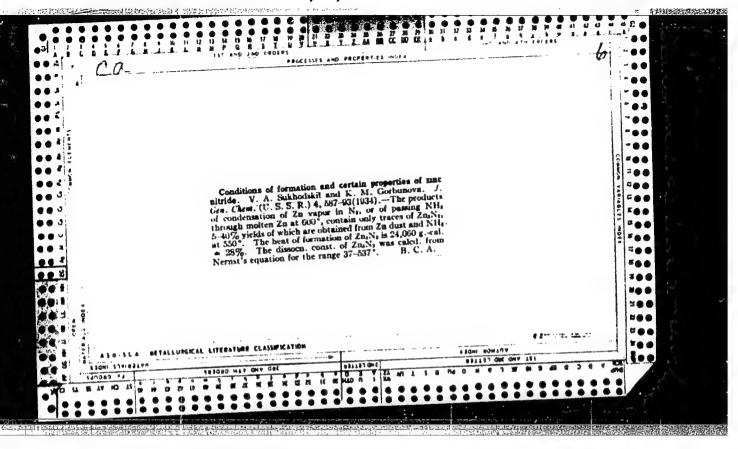
Recent data on the contemporaneous glaciation of Franz Josef Land. Dokl. AN SSSR 148 no.3:658-660 Ja *63. (MIRA 16:2)

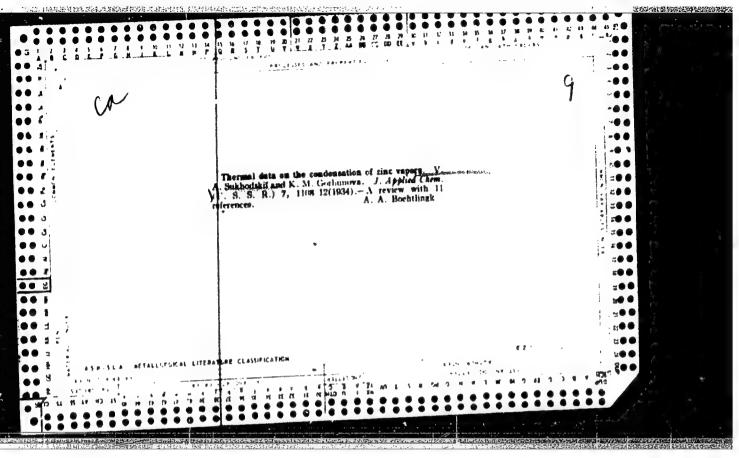
(MIRA 15:8)

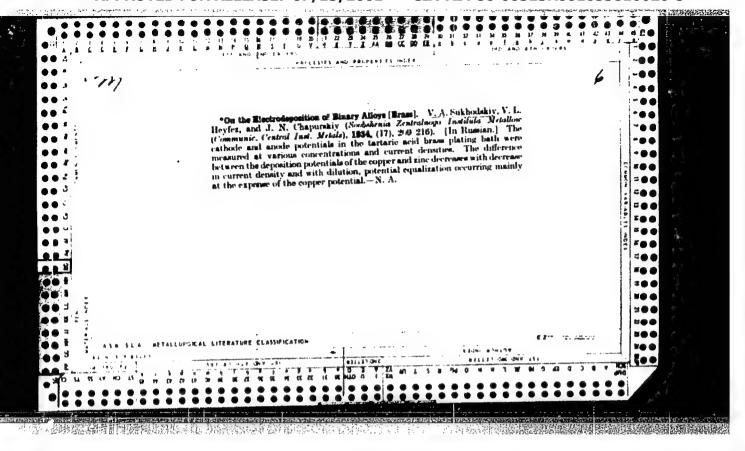
Influence of the relief of the snow cover on the activity of snow water in periglacial conditions; based on the example of Franz Josef Land. Izv. AN USSA. Ser. geog. nr.4897-102 J1-Ag 165.

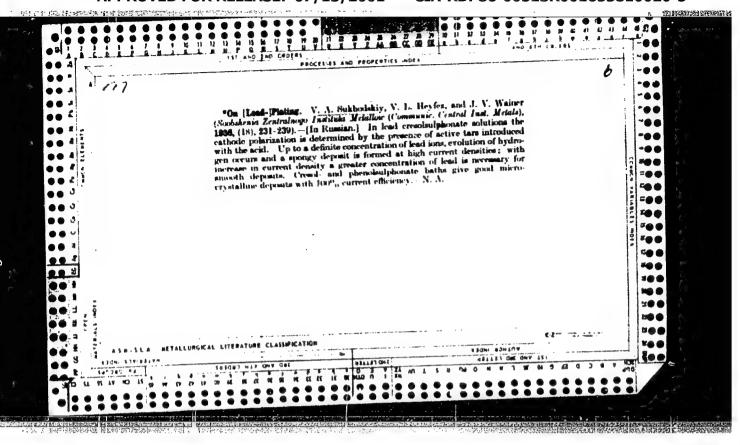
1. Institut geografit AN SSSR.

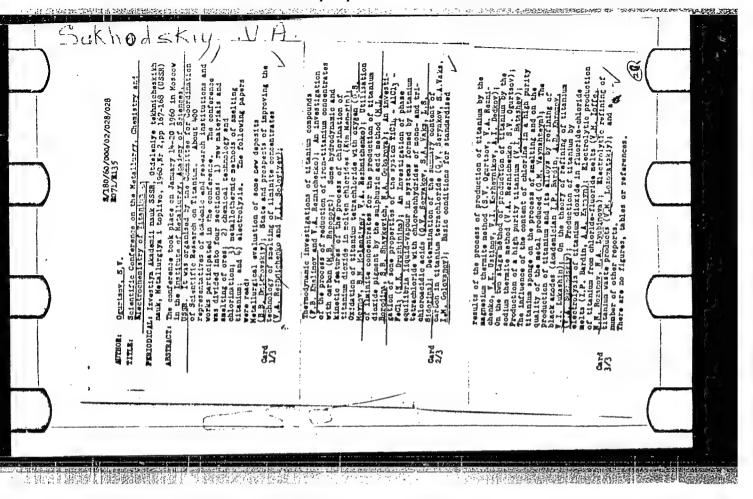












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S/180/60/000/004/009/027 E111/E452

Contribution on the Electrolytic Refining of Titanium

electrolytes are shown in Table 4. The author concludes that the reason for primary deposition of metallic titanium on the electrolyser walls in electrolysis of sodium chloride is the $Ti^{++} + 2Na^{\circ} = Ti^{\circ} + 2Na^{+}$ reaction; sodium appears because it is reduced at the cathode. At the anode both solution of titanium and oxidation of sodium occur. During electrolytic refining, metallic lithium and potassium are present in the bath. There are 1 figure, 4 tables and 6 English references.

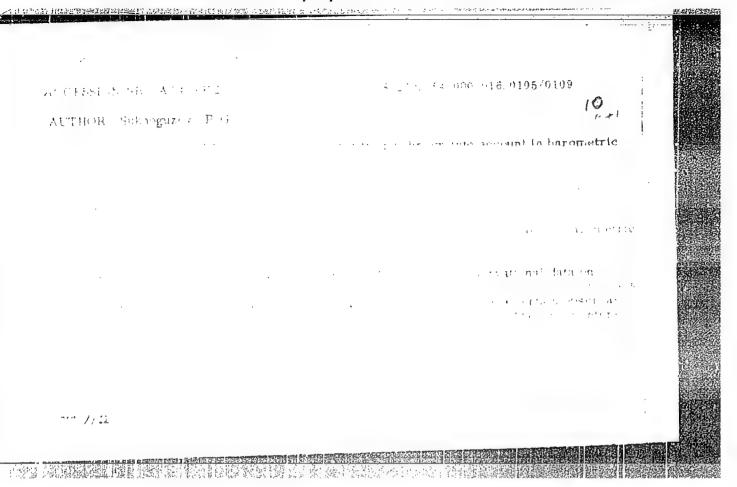
SUBMITTED: April 29, 1960

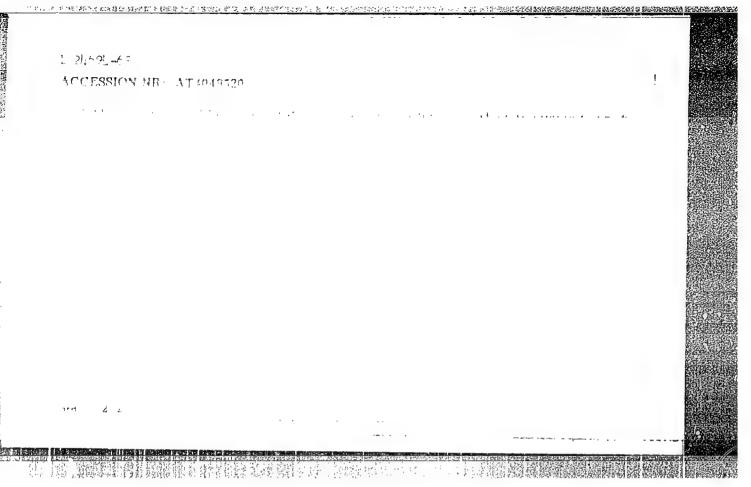
Card 2/2

SUKHODSKIY, V.A.; TSYPLAKOVA, M.M.

Effect of the central layer of electrolyte on the indices of the titanium electrorefining process. Titan ego splavy no.8:237-241 '62. (MIRA 16:1)

(Titanium—Electrometallurgy) (Fused salts)





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METLITSKIY, Z.A.; SUKHOIVANENKO, N.G.; HIKIFOROVA, G.V.

Thinning of apple flowers with the aid of DNOK compound [ammonium derivative of dinitroorthecresol], Kons. i ov. prom. 14 no.5:24-25 My '59. (MIRA 12:6)

1. Moskovskoye otdeleniye Vsesoyuznogo instituta rasteniyevodstva (for Metlitskiy). 2. Sovkhoz im. Timiryazeva (for Sukhoivanenko).

(Apple) (Fruit thinning) (Cresol)

STEFANOV, A.P.; SUKHOIVANENKO, P.Ya.

Photographic determination of the integral brightness of the solar corona of June 30, 1954. Astron.tsir. no.156:6-8 Ja 56(MLRA 8:10) (Sun--Corona)

34506 s/169/62/000/002/059/072 D228/D301

3,18:0

Ivanchuk, V. I. and Sukhoivanenke, P. Ya.

TITLE:

AUTHORS:

Luminescence of hydrogen and helium in auroras

PERIODICAL:

Referativnyy zhurnal, Geofizika, no. 2, 1962, 20, at-stract 26135 (Mezhdunar, geofiz, god. Inform, byul.,

no. 3, 1961, 35-38)

TEXT: Auroral spectra were obtained in 1958 near Tiksi Bay. An CM-48 (SP-48) spectrograph was used in the observation. The spectral interval 4700 - 6600 R was investigated. The spectrograph was mounted immovably, in the direction of the magnetic zenith. In a first approximation the resulting spectra may be divided into two rirst approximation the resulting spectra may be divided into two groups in accordance with the classification proposed by Yu. I. Galiperin (RZhGeofiz, nc. 6, 1957, 5554): 1) "atomic", in which the atomic lines NI, NII, and OI and the Balmer lines HX and HB preatomic lines NI, NII, and OI and the Balmer lines HX vail; and 2) "molecular"; in which the N_2^{\dagger} and N_2^{\dagger} 0 molecular bands

Card

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CIA-RDP86-00513R001653810020-5

NOTE BY ANY DESCRIPTION OF DEED WINDSHESSED

39096 5/169/62/000/006/078/093 D228/D304

3,1810 LUTHUR:

Sukhoivanenko, P. Ya.

الأستشاسة

Logolar proton velocities according to observations of

H. emission in auroras

kererativnyy zhurnal, Geofizika, no. 6, 1962, 22, abstract 66155 (V sb. Polyarn. siyaniya i svecheniye nochn. neba, no. 7, M., AN SSSR, 1961, 7-13)

TLKT: The analysis of auroral spectra is given; these were obtained at a geophysical station in Tiksi Bay by means of CA-43 (SP-48) and 32-49 spectrographs. Hydrogen emissions were investigated, and the Executed velocity characteristics, which may be ascribed to protons injected into the atmosphere's upper layers, were determined. The Holine appeared to be the most convenient for investigation. The observational data of the Doppler contours of Ha obtained by the author are tabulated. It is evident from the table that violet -shift of the Hq contour line's maximum comprises 3 - 7 Å. According Card 1/2

"APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001653810020-5

M

Country: USSR

Category: Cultivated Plants. Grains.

Abs Jour: RZhBiol., No 11, 1958, 48845

Author : Sukhoivanov, V.A.

: Sci. Res. Inst. of Agriculture of the Central Inst

Chernozem Belt

: Application of Organic-Mineral Mixtures Under the Title

Winter Cultures.

Orig Pub: Byul. nauchno-tekhn. inform. n.-i. in-ta s. lh.

TSCHP, 1956, No 1, 17-20

Abstract: In 1951-1954, the V.V. Dokuchayev Institute of

Agriculture developed methods of utilizing small doses of raw humas (6-8 cent/ha) in applying it together with the mineral fertilizers (1.5 cent/ha)

: 1/2 Card

SUKHOIVANOV, V.A., kand.sel'skokhozyaystvennykh nauk; MUKHIN, V.G.

Side dressing of winter crops. Zemledelie 24 no.7:42-46
J1'62. (MIRA 15:12)

1. Nauchno-issledovatel'skiy institut sel'skogo khozyaystva
TSentral'no-chernozemnoy polosy imeni V.V. Dokuchayeva.

(Central Black Earth region—Wheat—Fertilizers and mamures)

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PANOVA, L.N.; SUKHOLET, A. Yu.

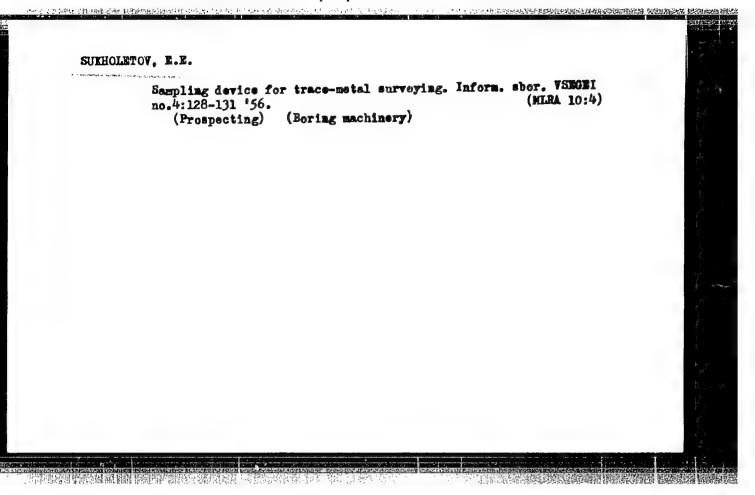
Determination of the average degree of polymerization of cellulose and of its fractional content under plant laboratory conditions. Khim.volok. no.5:69-70 '60. (MIRA 13:12)

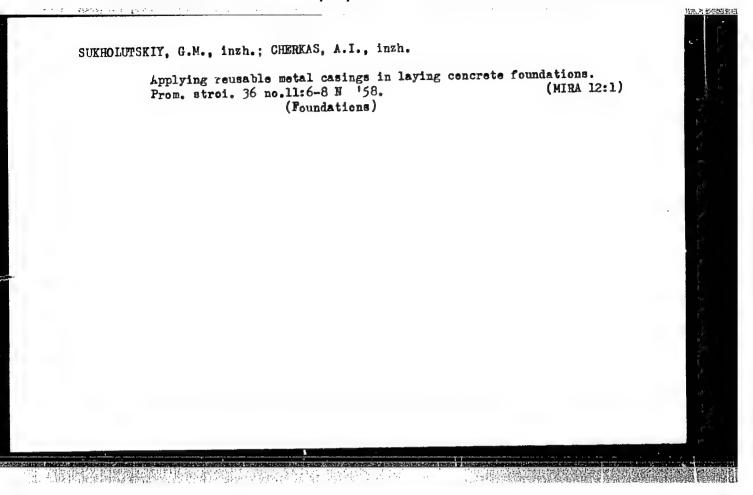
1. TSentral'naya zavodskaya laboratoriya Kalininskogo kombinata. (Cellulose) (Polymerisation)

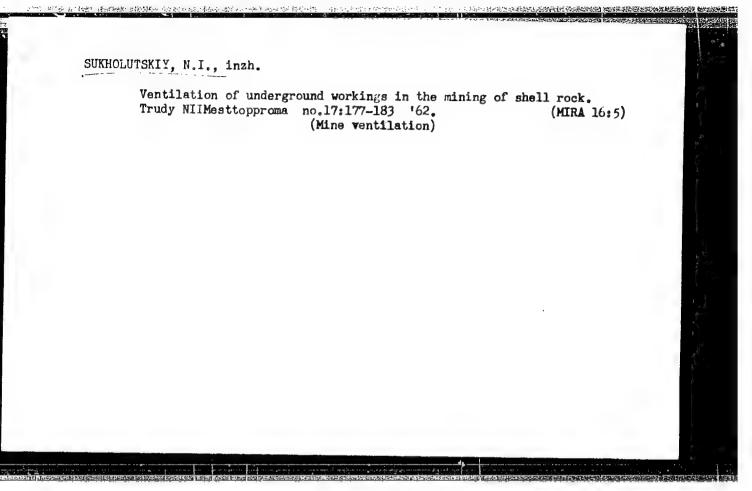
 SHETKO, T.I.; SUKHOLET, A.Yu.

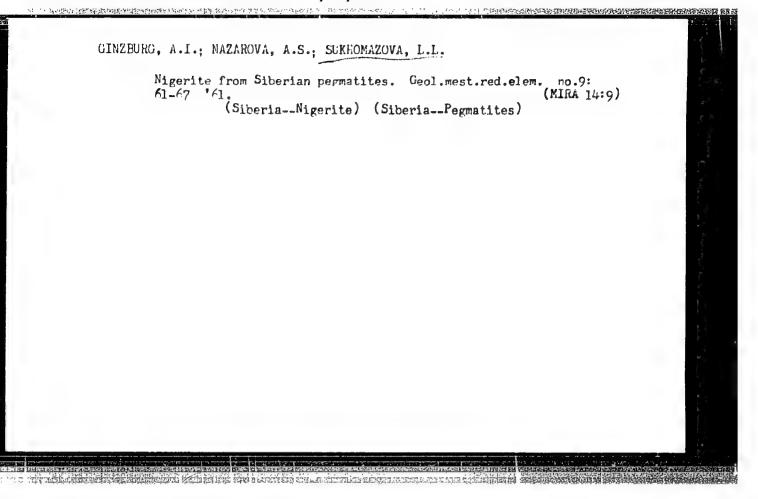
Ways for reducing sulfur content of stock dyed spun rayon fibers. Khim. volok. no.3:70-71 '63. (MIRA 16:7)

1. Kalininskiy kombinat iskusstvennogo volokna. (Rayon) (Sulfur)



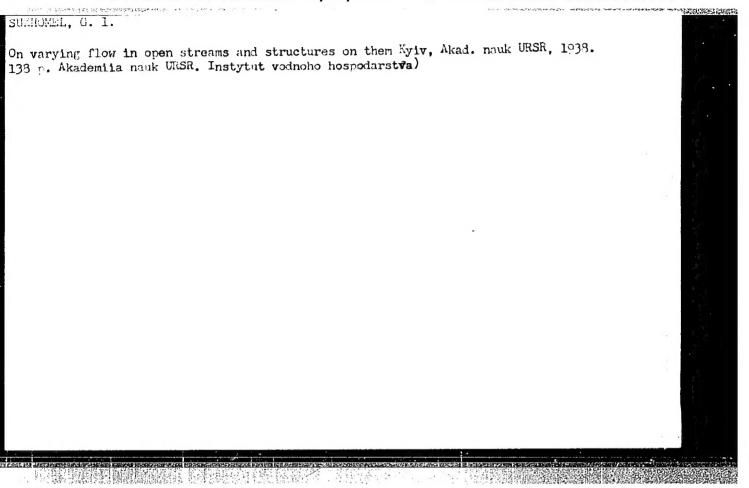


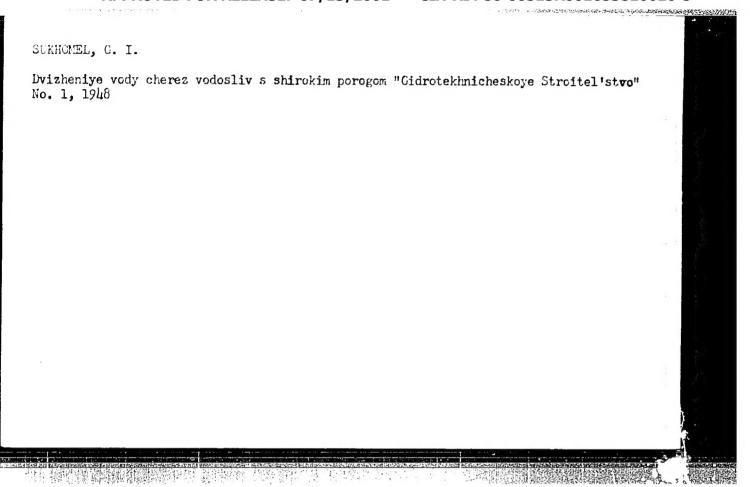




OVSISHCHER, Petr Il'ich; KOCHKINA, Nadezhda Nikolayevna; SHATS, S.Ya., kand. tekhn. nauk, retsenzent; MARTYNOV, A.P., inzh., retsenzent; SUKHOMEKHOV, V.P., nauchnyy red.; CHICHKANOVA, V.S., red. izd-va; KONTOROVICH, A.I., tekhn. red.; KRYAKOVA, D.M., tekhn. red.

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SO: U-5211, 17 December 1)53, (Letopis 'Zhurnal 'nykh Statey, No. 26, 1949)

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30: Istopis' Zharnal'yukh Statey, Vol. 50, Noskya, 19h9

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